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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,335	09/22/2005	Francesco Pessolano	NL 030285	1347
	7590 04/17/200 CLECTUAL PROPER	EXAMINER		
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			TREAT, WILLIAM M	
			ART UNIT	PAPER NUMBER
			2181	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	THS	04/17/2007	D7 PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	
Office Action Summary		10/550,335	FRANCESCO PESSOLANO	
		Examiner	Art Unit	
		William M. Treat	2181	
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet with the	correspondence address	
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory pere to reply within the set or extended period for reply will, by steply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNICATIO R 1.136(a). In no event, however, may a reply be ti h. eriod will apply and will expire SIX (6) MONTHS fron tatute, cause the application to become ABANDON	N. imely filed The mailing date of this communication. ED (35 U.S.C. § 133).	
Status	·			
2a) <u></u>	Responsive to communication(s) filed on 2 This action is FINAL . 2b) Since this application is in condition for alloclosed in accordance with the practice und	This action is non-final. owance except for formal matters, pr		
Dispositi	on of Claims	•	•	
5)	Claim(s) 1-11 is/are pending in the applicated 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1-11 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction are subject to restriction are subject to restriction are subjected to by the Example of the drawing(s) filed on 22 September 2005. Applicant may not request that any objection to	drawn from consideration. nd/or election requirement. niner. is is/are: a) □ accepted or b) ⊠ object	•	
	Replacement drawing sheet(s) including the column of the c	rrection is required if the drawing(s) is of	bjected to. See 37 CFR 1.121(d).	
Priority u	nder 35 U.S.C. § 119		·	
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
2) Notice (3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) ' No(s)/Mail Date	4) Interview Summan Paper No(s)/Mail D 5) Nofice of Informal I 6) Other:	Date	

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1. Claims 1-11 are presented for examination.

- 2. The drawings are objected to because the drawing lacks suitable legends. Without appropriate labels applicant has nothing but a bunch of numbered boxes with arrows connecting them. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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4. Claims 1-9 and 11 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kennedy et al. (Patent No. 5,740,417).

- 5. The examiner would suggest applicant review Fig. 1 and read col. 2, line 25 through col. 5, line 11 and claim 1 before responding. The examiner would point out that he considers an appropriate instruction addressing unit to be inherent in Kennedy, or he could not fetch instructions. Also, the examiner is taking the position that Kennedy's branch history is a measure of activity for instructions on the two paths of a branch. It is a measure of the frequency of recent execution of the instructions along the two paths.
- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kennedy et al. (Patent No. 5,740,417).
- 8. Kennedy taught the invention of claims 1, 8, and 9 from which claim 10 depends. He did not teach the technique of using traces to establish branch behavior and then use this information to make static branch predictions. However, the examiner takes Official Notice that the technique was well-known in the art at the time of applicant's invention. One of ordinary skill would be motivated to combine the technique with Kennedy's teaching because it would still afford the power savings of Kennedy's

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system, would simplify the processor's circuitry, and would offer potential additional power savings since the dynamic branch prediction circuitry would be eliminated.

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 10. Chauvel et al. (Patent No. 7,062,304).
- 11. Any inquiry concerning this communication should be directed to William M. Treat at telephone number (571) 272-4175.
- 12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William M. Treat

Primary Examiner